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## RAW SEQUENCE LISTING

DATE: 05/21/2002

PATENT APPLICATION: US/09/939,833

TIME: 14:22:49

Input Set : N:\Crf3\RULE60\09939833.raw

Output Set: N:\CRF3\05212002\I939833.raw

1 <110> APPLICANT: MCTIGUE, MICHELE A.  
2 WICKERSHAM, JOHN A.  
3 PINKO, CHRIS  
4 SHOWALTER, RICHARD  
5 PARAST, CAMRAN V.  
6 TEMPczyk-RUSSEL, ANNA  
7 GEHRING, MICHAEL R.  
8 MROCZKOWSKI, BARBARA  
9 KAN, CHEN-CHEN  
10 VILAFRANCA, J. ERNEST  
11 APPELT, KRZYSZTOF  
12 <120> TITLE OF INVENTION: MODIFICATIONS OF THE VEGF RECEPTOR-2 PROTEIN AND  
13 METHODS OF USE  
14 <130> FILE REFERENCE: 0125-0016US  
15 <140> CURRENT APPLICATION NUMBER: 09/939,833  
16 <141> CURRENT FILING DATE: 2001-08-28  
18 <150> PRIOR APPLICATION NUMBER: US/09/390,326  
19 <151> PRIOR FILING DATE: 1999-09-07  
21 <160> NUMBER OF SEQ ID NOS: 12  
22 <170> SOFTWARE: PatentIn Ver. 2.0  
24 <210> SEQ ID NO: 1  
25 <211> LENGTH: 31  
26 <212> TYPE: DNA  
27 <213> ORGANISM: Homo sapiens  
28 <400> SEQUENCE: 1  
29 cagcatatgg atccagatga actcccattg g 31  
31 <210> SEQ ID NO: 2  
32 <211> LENGTH: 34  
33 <212> TYPE: DNA  
34 <213> ORGANISM: Homo sapiens  
35 <400> SEQUENCE: 2  
36 gcggctcgact taaacaggag gagagctcag tgtg 34  
38 <210> SEQ ID NO: 3  
39 <211> LENGTH: 33  
40 <212> TYPE: DNA  
41 <213> ORGANISM: Homo sapiens  
42 <400> SEQUENCE: 3  
43 gcacatatgg aacgactgcc ttatgatgcc agc 33  
45 <210> SEQ ID NO: 4  
46 <211> LENGTH: 38  
47 <212> TYPE: DNA  
48 <213> ORGANISM: Homo sapiens  
49 <400> SEQUENCE: 4

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50 cctgtcgact tatccagaat cctcttccat gctcaaag 38

52 <210> SEQ ID NO: 5

53 <211> LENGTH: 317

54 <212> TYPE: PRT

55 <213> ORGANISM: Homo sapiens

56 <400> SEQUENCE: 5

57 Met Asp Pro Asp Glu Leu Pro Leu Asp Glu His Cys Glu Arg Leu Pro

58 1 5 10 15

59 Tyr Asp Ala Ser Lys Trp Glu Phe Pro Arg Asp Arg Leu Lys Leu Gly

60 20 25 30

61 Lys Pro Leu Gly Arg Gly Ala Phe Gly Gln Val Ile Glu Ala Asp Ala

62 35 40 45

63 Phe Gly Ile Asp Lys Thr Ala Thr Cys Arg Thr Val Ala Val Lys Met

64 50 55 60

65 Leu Lys Glu Gly Ala Thr His Ser Glu His Arg Ala Leu Met Ser Glu

66 65 70 75 80

67 Leu Lys Ile Leu Ile His Ile Gly His His Leu Asn Val Val Asn Leu

68 85 90 95

69 Leu Gly Ala Cys Thr Lys Pro Gly Gly Pro Leu Met Val Ile Val Glu

70 100 105 110

71 Phe Cys Lys Phe Gly Asn Leu Ser Thr Tyr Leu Arg Ser Lys Arg Asn

72 115 120 125

73 Glu Phe Val Pro Tyr Lys Glu Ala Pro Glu Asp Leu Tyr Lys Asp Phe

74 130 135 140

75 Leu Thr Leu Glu His Leu Leu Ile Cys Tyr Ser Phe Gln Val Ala Lys

76 145 150 155 160

77 Gly Met Glu Phe Leu Ala Ser Arg Lys Cys Ile His Arg Asp Leu Ala

78 165 170 175

79 Ala Arg Asn Ile Leu Leu Ser Glu Lys Asn Val Val Lys Ile Cys Asp

80 180 185 190

81 Phe Gly Leu Ala Arg Asp Ile Tyr Lys Asp Pro Asp Tyr Val Arg Lys

82 195 200 205

83 Gly Asp Ala Arg Leu Pro Leu Lys Trp Met Ala Pro Glu Thr Ile Phe

84 210 215 220

85 Asp Arg Val Tyr Thr Ile Gln Ser Asp Val Trp Ser Phe Gly Val Leu

86 225 230 235 240

87 Leu Trp Glu Ile Phe Ser Leu Gly Ala Ser Pro Tyr Pro Gly Val Lys

88 245 250 255

89 Ile Asp Glu Glu Phe Cys Arg Arg Leu Lys Glu Gly Thr Arg Met Arg

90 260 265 270

91 Ala Pro Asp Tyr Thr Thr Pro Glu Met Tyr Gln Thr Met Leu Asp Cys

92 275 280 285

93 Trp His Gly Glu Pro Ser Gln Arg Pro Thr Phe Ser Glu Leu Val Glu

94 290 295 300

95 His Leu Gly Asn Leu Leu Gln Ala Asn Ala Gln Gln Asp

96 305 310 315

98 <210> SEQ ID NO: 6

99 <211> LENGTH: 386

100 <212> TYPE: PRT

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101 <213> ORGANISM: E. coli
102 <400> SEQUENCE: 6
103   Asp Pro Met Gln Leu Pro Tyr Asp Ser Arg Trp Glu Phe Pro Arg Asp
104     1                    5                10                15
105   Gly Leu Val Leu Gly Arg Val Leu Gly Ser Gly Ala Phe Gly Lys Val
106                   20                25                30
107   Val Glu Gly Thr Ala Tyr Gly Leu Ser Arg Ser Gln Pro Val Met Lys
108                   35                40                45
109   Val Ala Val Lys Met Leu Lys Pro Thr Ala Arg Ser Ser Glu Lys Gln
110                   50                55                60
111   Ala Leu Met Ser Glu Leu Lys Ile Met Thr His Leu Gly Pro His Leu
112                   65                70                75                80
113   Asn Ile Val Asn Leu Leu Gly Ala Cys Thr Lys Ser Gly Pro Ile Tyr
114                   85                90                95
115   Ile Ile Thr Glu Tyr Cys Phe Tyr Gly Asp Leu Val Asn Tyr Leu His
116                   100               105               110
117   Lys Asn Arg Asp Ser Phe Leu Ser His His Pro Glu Lys Pro Lys Lys
118                   115               120               125
119   Glu Leu Asp Ile Phe Gly Leu Asn Pro Ala Asp Glu Ser Thr Arg Ser
120                   130               135               140
121   Tyr Val Ile Leu Ser Phe Glu Asn Asn Gly Asp Tyr Met Asp Met Lys
122                   145               150               155               160
123   Gln Ala Asp Thr Thr Gln Tyr Val Pro Met Leu Glu Arg Lys Glu Val
124                   165               170               175
125   Ser Lys Tyr Ser Asp Ile Gln Arg Ser Leu Tyr Asp Arg Pro Ala Ser
126                   180               185               190
127   Tyr Lys Lys Lys Ser Met Leu Asp Ser Glu Val Lys Asn Leu Leu Ser
128                   195               200               205
129   Asp Asp Asn Ser Glu Gly Leu Thr Leu Leu Asp Leu Leu Ser Phe Thr
130                   210               215               220
131   Tyr Gln Val Ala Arg Gly Met Glu Phe Leu Ala Ser Lys Asn Cys Val
132                   225               230               235               240
133   His Arg Asp Leu Ala Ala Arg Asn Val Leu Leu Ala Gln Gly Lys Ile
134                   245               250               255
135   Val Lys Ile Cys Asp Phe Gly Leu Ala Arg Asp Ile Met His Asp Ser
136                   260               265               270
137   Asn Tyr Val Ser Lys Gly Ser Thr Phe Leu Pro Val Lys Trp Met Ala
138                   275               280               285
139   Pro Glu Ser Ile Phe Asp Asn Leu Tyr Thr Thr Leu Ser Asp Val Trp
140                   290               295               300
141   Ser Tyr Gly Ile Leu Leu Trp Glu Ile Phe Ser Leu Gly Gly Thr Pro
142                   305               310               315               320
143   Tyr Pro Gly Met Met Val Asp Ser Thr Phe Tyr Asn Lys Ile Lys Ser
144                   325               330               335
145   Gly Tyr Arg Met Ala Lys Pro Asp His Ala Thr Ser Glu Val Tyr Glu
146                   340               345               350
147   Ile Met Val Lys Cys Trp Asn Ser Glu Pro Glu Lys Arg Pro Ser Phe
148                   355               360               365
149   Tyr His Leu Ser Glu Ile Val Glu Asn Leu Leu Pro Gly Gln Tyr Lys

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150          370          375          380
151      Lys Ser
152      385
154 <210> SEQ ID NO: 7
155 <211> LENGTH: 310
156 <212> TYPE: PRT
157 <213> ORGANISM: Homo sapiens
158 <400> SEQUENCE: 7
159      Met Leu Ala Gly Val Ser Glu Tyr Glu Leu Pro Glu Asp Pro Arg Trp
160          1          5          10          15
161      Glu Leu Pro Arg Asp Arg Leu Val Leu Gly Lys Pro Leu Gly Glu Gly
162          20          25          30
163      Cys Phe Gly Gln Val Val Leu Ala Glu Ala Ile Gly Leu Asp Lys Asp
164          35          40          45
165      Lys Pro Asn Arg Val Thr Lys Val Ala Val Lys Met Leu Lys Ser Asp
166          50          55          60
167      Ala Thr Glu Lys Asp Leu Ser Asp Leu Ile Ser Glu Met Glu Met Met
168          65          70          75          80
169      Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala Cys
170          85          90          95
171      Thr Gln Asp Gly Pro Leu Tyr Val Ile Val Glu Tyr Ala Ser Lys Gly
172          100          105          110
173      Asn Leu Arg Glu Tyr Leu Gln Ala Arg Arg Pro Pro Gly Leu Glu Tyr
174          115          120          125
175      Cys Tyr Asn Pro Ser His Asn Pro Glu Glu Gln Leu Ser Ser Lys Asp
176          130          135          140
177      Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu Ala
178          145          150          155          160
179      Ser Lys Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu Val
180          165          170          175
181      Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg Asp
182          180          185          190
183      Ile His His Ile Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu Pro
184          195          200          205
185      Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Ile Tyr Thr His
186          210          215          220
187      Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe Thr
188          225          230          235          240
189      Leu Gly Gly Ser Pro Tyr Pro Gly Val Pro Val Glu Glu Leu Phe Lys
190          245          250          255
191      Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ser Asn Cys Thr Asn
192          260          265          270
193      Glu Leu Tyr Met Met Met Arg Asp Cys Trp His Ala Val Pro Ser Gln
194          275          280          285
195      Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Ile Val Ala
196          290          295          300
197      Leu Thr Ser Asn Gln Glu
198          305          310
200 <210> SEQ ID NO: 8

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Input Set : N:\Crf3\RULE60\09939833.raw

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201 <211> LENGTH: 297
202 <212> TYPE: PRT
203 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 8
205   Val Phe Pro Cys Ser Val Tyr Val Pro Asp Glu Trp Glu Val Ser Arg
206       1             5             10             15
207   Glu Lys Ile Thr Leu Leu Arg Glu Leu Gly Gln Gly Ser Phe Gly Met
208               20             25             30
209   Val Tyr Glu Gly Asn Ala Arg Asp Ile Ile Lys Gly Glu Ala Glu Thr
210       35             40             45
211   Arg Val Ala Val Lys Thr Val Asn Glu Ser Ala Ser Leu Arg Glu Arg
212       50             55             60
213   Ile Glu Phe Leu Asn Glu Ala Ser Val Met Lys Gly Phe Thr Cys His
214       65             70             75             80
215   His Val Val Arg Leu Leu Gly Val Val Ser Lys Gly Gln Pro Thr Leu
216               85             90             95
217   Val Val Met Glu Leu Met Ala His Gly Asp Leu Lys Ser Tyr Leu Arg
218               100            105            110
219   Ser Leu Arg Pro Glu Ala Glu Asn Asn Pro Gly Arg Pro Pro Pro Thr
220               115            120            125
221   Leu Gln Glu Met Ile Gln Met Ala Ala Glu Ile Ala Asp Gly Met Ala
222               130            135            140
223   Tyr Leu Asn Ala Lys Lys Phe Val His Arg Asp Leu Ala Ala Arg Asn
224       145            150            155            160
225   Cys Met Val Ala His Asp Phe Thr Val Lys Ile Gly Asp Phe Gly Met
226               165            170            175
227   Thr Arg Asp Ile Tyr Glu Thr Asp Tyr Tyr Arg Lys Gly Gly Lys Gly
228               180            185            190
229   Leu Leu Pro Val Arg Trp Met Ala Pro Glu Ser Leu Lys Asp Gly Val
230       195            200            205
231   Phe Thr Thr Ser Ser Asp Met Trp Ser Phe Gly Val Val Leu Trp Glu
232       210            215            220
233   Ile Thr Ser Leu Ala Glu Gln Pro Tyr Gln Gly Leu Ser Asn Glu Gln
234       225            230            235            240
235   Val Leu Lys Phe Val Met Asp Gly Gly Tyr Leu Asp Gln Pro Asp Asn
236               245            250            255
237   Cys Pro Glu Arg Val Thr Asp Leu Met Arg Met Cys Trp Gln Phe Asn
238               260            265            270
239   Pro Asn Met Arg Pro Thr Phe Leu Glu Ile Val Asn Leu Leu Lys Asp
240       275            280            285
241   Asp Leu His Pro Ser Phe Pro Glu Val
242       290            295
244 <210> SEQ ID NO: 9
245 <211> LENGTH: 367
246 <212> TYPE: PRT
247 <213> ORGANISM: Homo sapiens
248 <400> SEQUENCE: 9
249   Met Asp Pro Asp Glu Val Pro Leu Asp Glu Gln Cys Glu Arg Leu Pro
250       1             5             10             15

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VERIFICATION SUMMARY

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